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OPTICAL ADAPTER

3

CAMERA
(TOP SURFACE)

1

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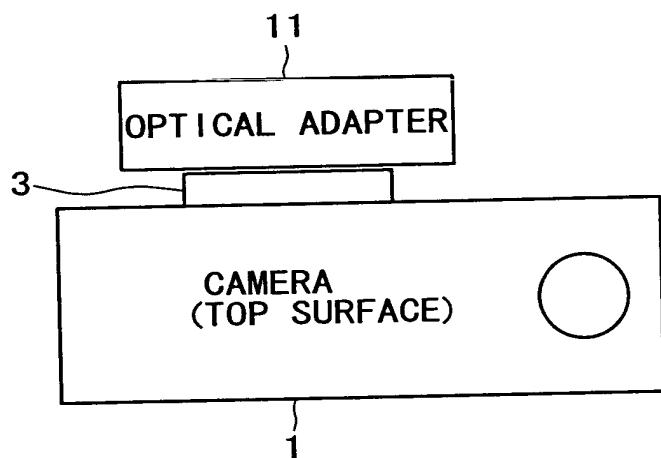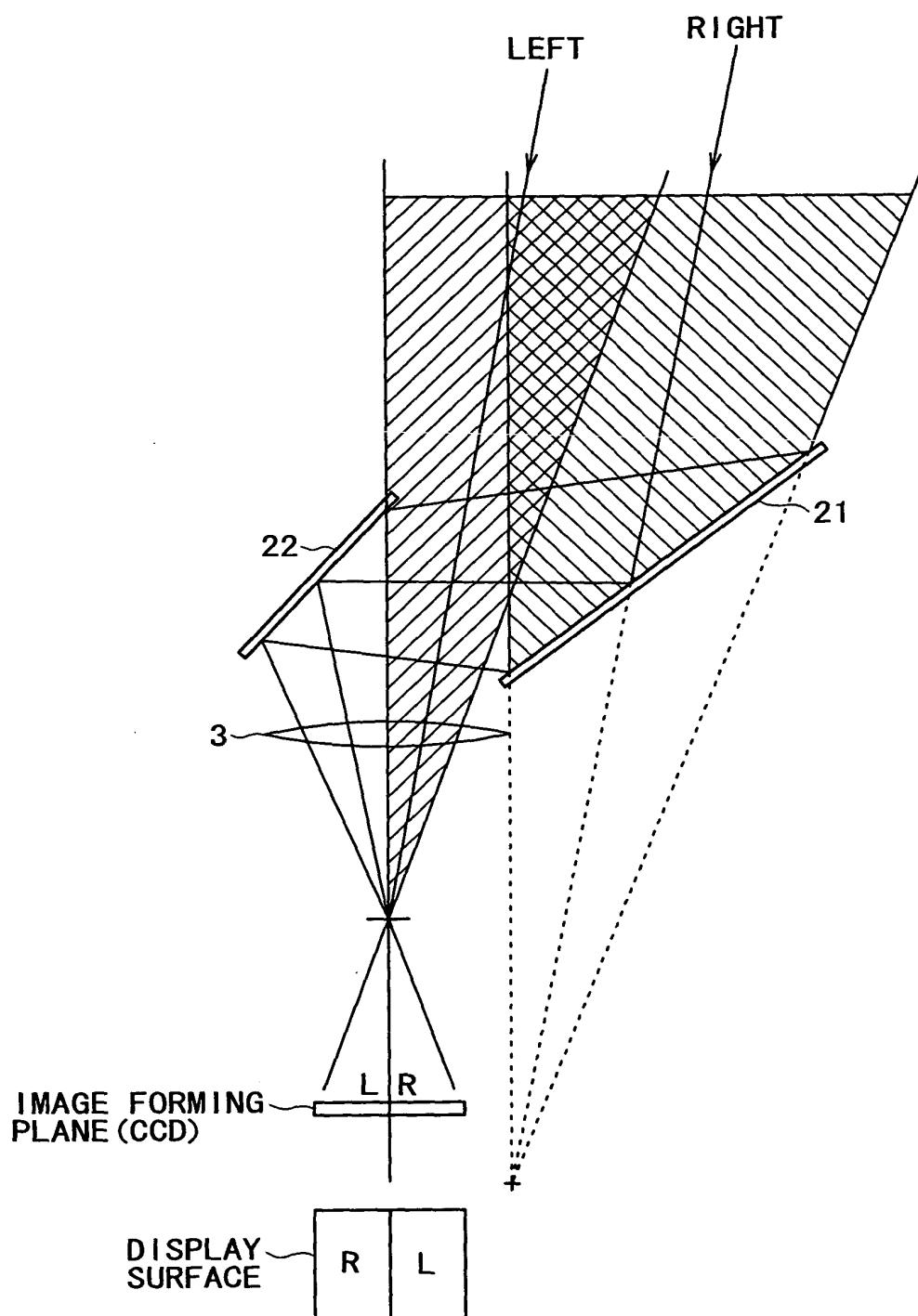2/21

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FIG. 3

REGION FOR RIGHT EYE   REGION FOR LEFT EYE

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PARALLAX IMAGE

| MIRROR IMAGE | THROUGH IMAGE |

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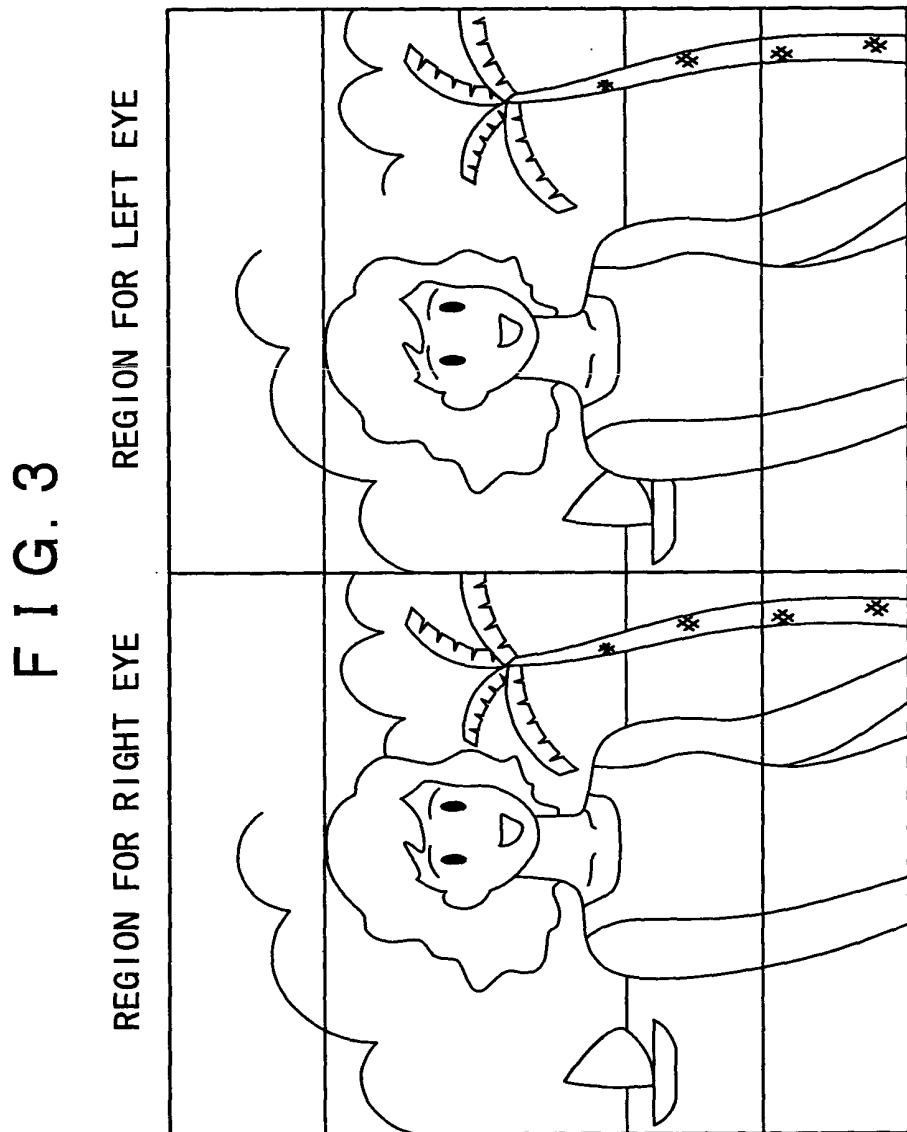
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R IMAGE   L IMAGE

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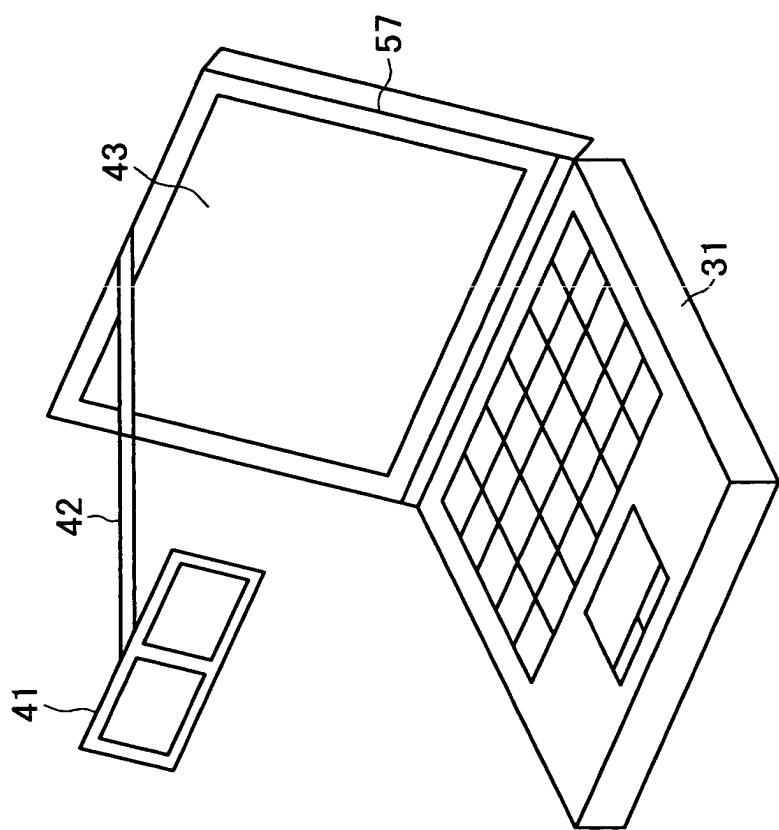PROGRAM, Seiji Sato et al.
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FIG. 8

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IMAGE PROCESSING
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FIG. 10

IMAGE PROCESSING
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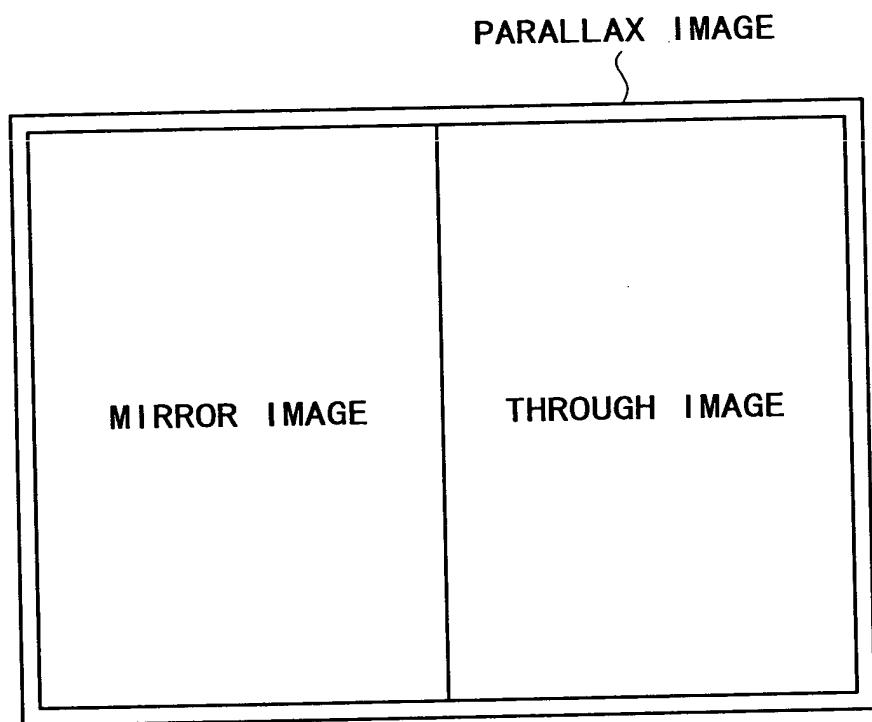PROGRAM, Seiji Sato et al.
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FIG.12

101

102

MAIN AREA

OBTAIN IMAGES — 103

STEREOSCOPIC IMAGE — 104

LR INTERCHANGE — 105

PRINT — 106

END — 107

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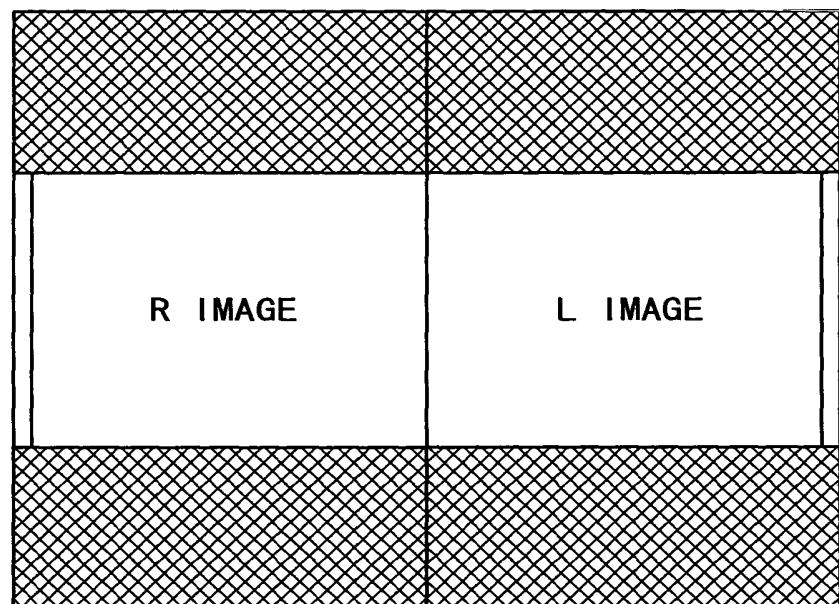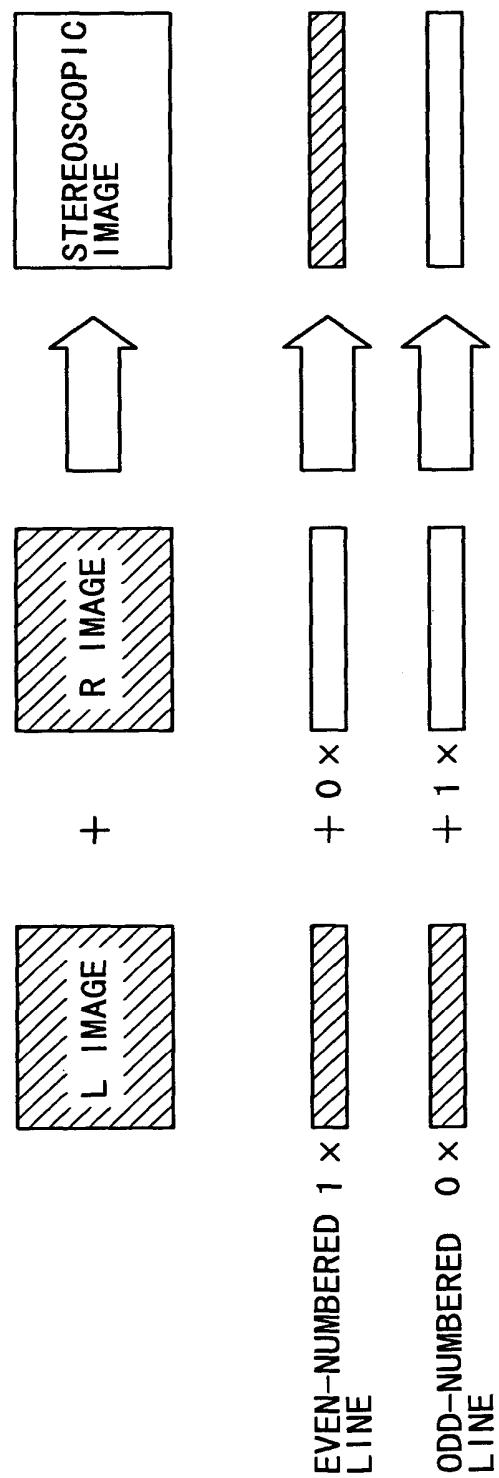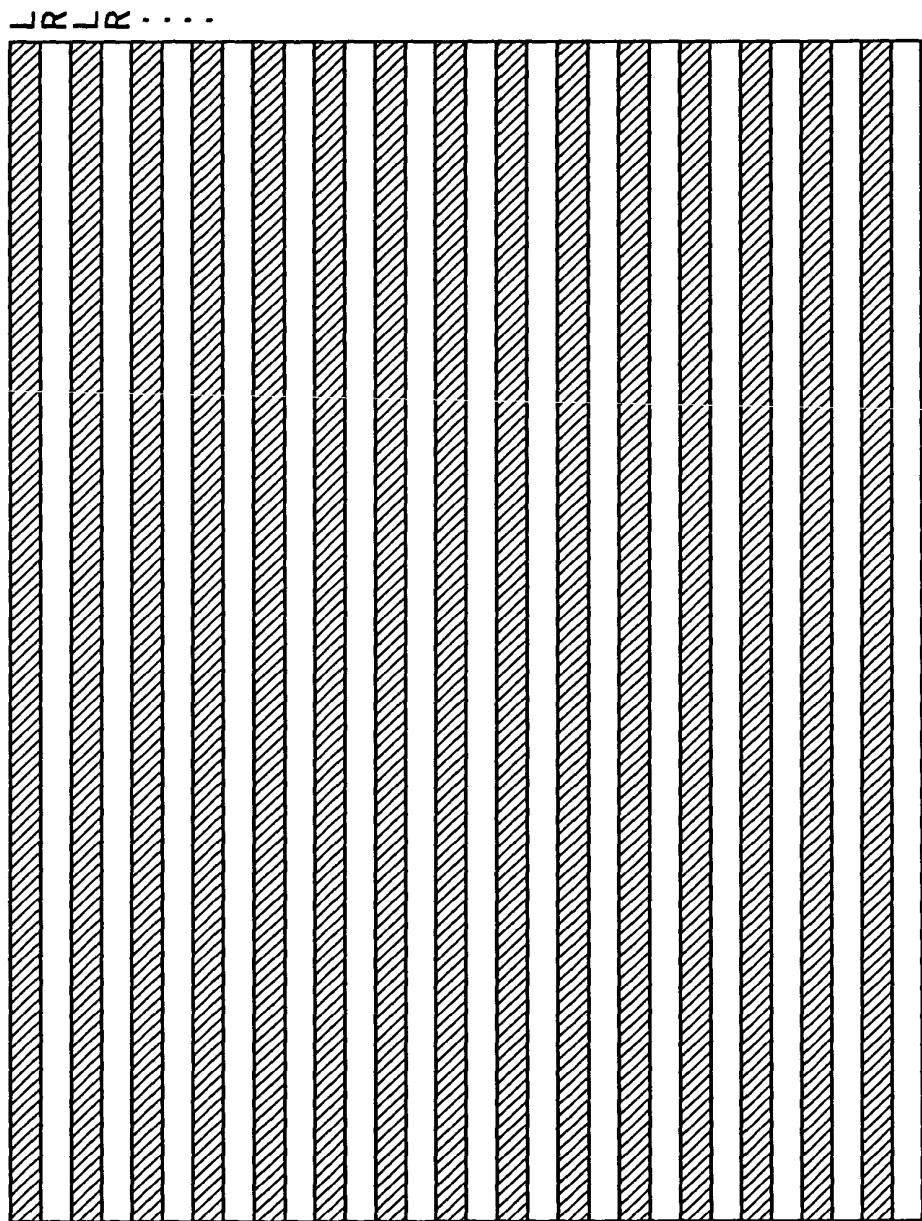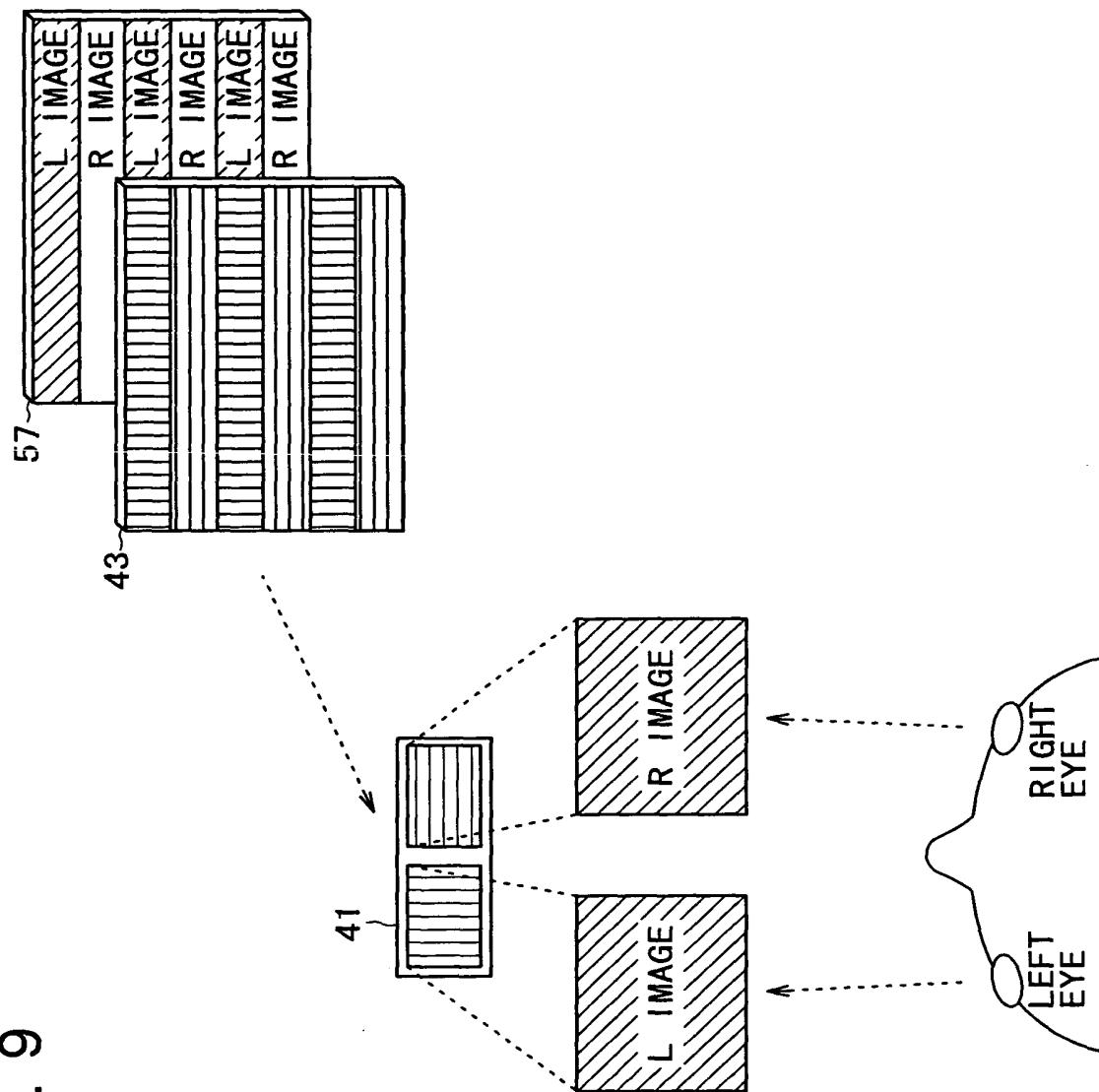PROGRAM, Seiji Sato et al.
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F I G. 1 4

```
     ┌──────────────────────────────┐
     │  START STEREOSCOPIC IMAGE    │
     │  GENERATION PROCESSING       │
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │    OBTAIN  PARALLAX  IMAGE    │──S1
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │ CORRECT BRIGHTNESS OF PERIPHERAL │
     │ PORTION OF MIRROR IMAGE ON THE   │──S2
     │ BASIS OF EXPERIMENTAL RESULT     │
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │ CORRECT BRIGHTNESS AND COLOR  │
     │ DIFFERENCE OF MIRROR IMAGE ON THE │──S3
     │ BASIS OF THROUGH IMAGE        │
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │ CORRECT BLUR OF MIRROR IMAGE  │──S4
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │ CROP MIRROR IMAGE AND THROUGH IMAGE │──S5
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │ ADJUST POSITION IN VERTICAL   │──S6
     │ DIRECTION                     │
     └──────────────┬───────────────┘
                    ↓
     ┌──────────────────────────────┐
     │ COMBINE L IMAGE AND R IMAGE FOR │
     │ EACH LINE AND GENERATE STEREOSCOPIC │──S7
     │ IMAGE                         │
     └──────────────┬───────────────┘
                    ↓
              ┌──────────┐
              │   END    │
              └──────────┘
```
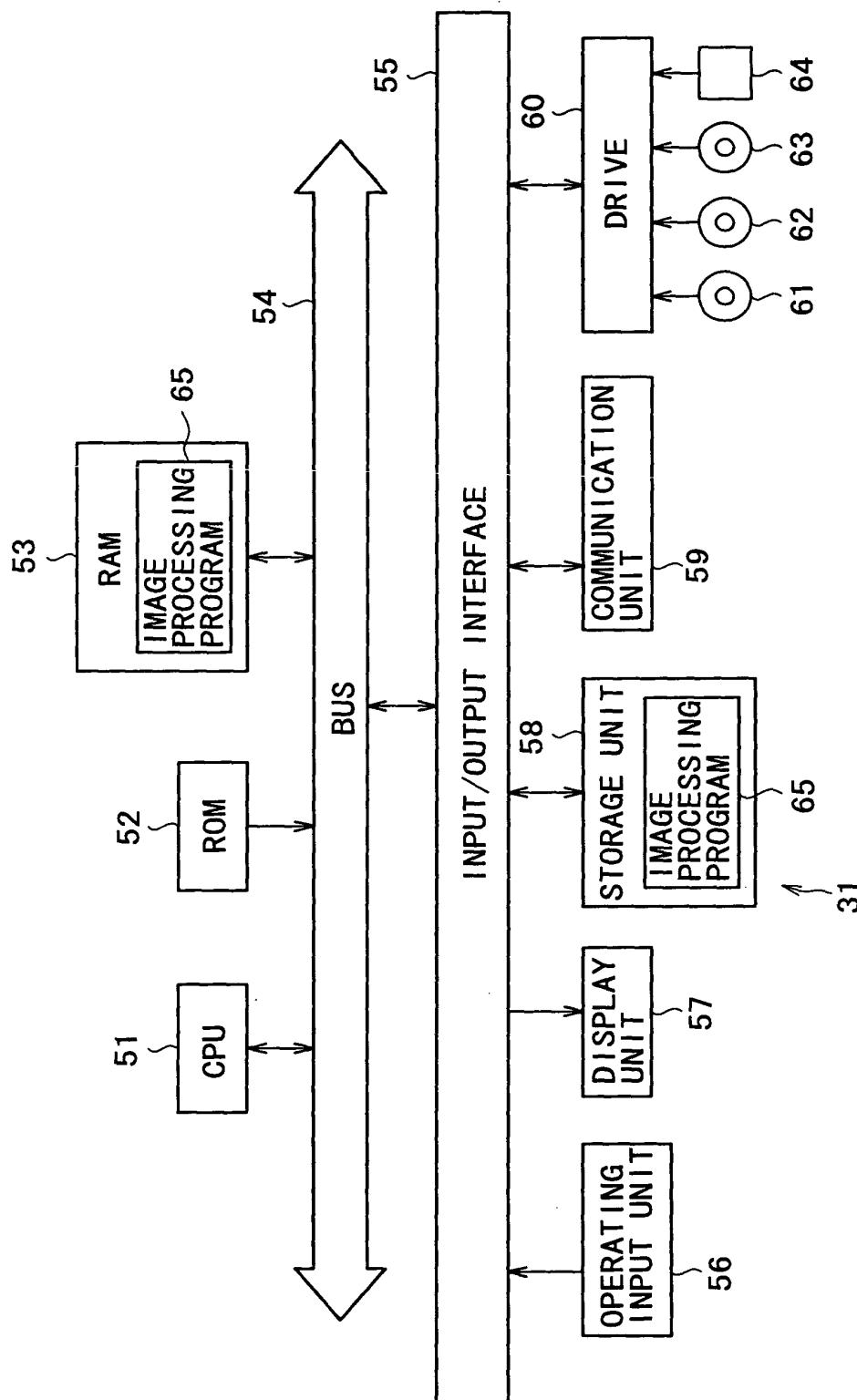
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F I G. 1 5

START IMAGE PAIR AUTOMATIC
SELECTION PROCESSING

WAS IMAGE TAKEN IN
CONTINUOUS SHOOTING MODE? — S11
YES

NO

IS DIFFERENCE IN SHOOTING DATE AND
TIME BETWEEN IMAGE BEING PROCESSED
AND NEXT IMAGE THAT HAVE
CONSECUTIVE FILE NUMBERS WITHIN
THRESHOLD VALUE? — S12

NO

YES

IS DEGREE OF SIMILARITY BETWEEN
IMAGE BEING PROCESSED AND NEXT IMAGE
THAT HAVE CONSECUTIVE FILE NUMBERS
WITHIN THRESHOLD VALUE? — S13

NO

YES

SET IMAGE BEING PROCESSED AND NEXT IMAGE
THAT HAVE COSECUTIVE FILE NUMBERS AS
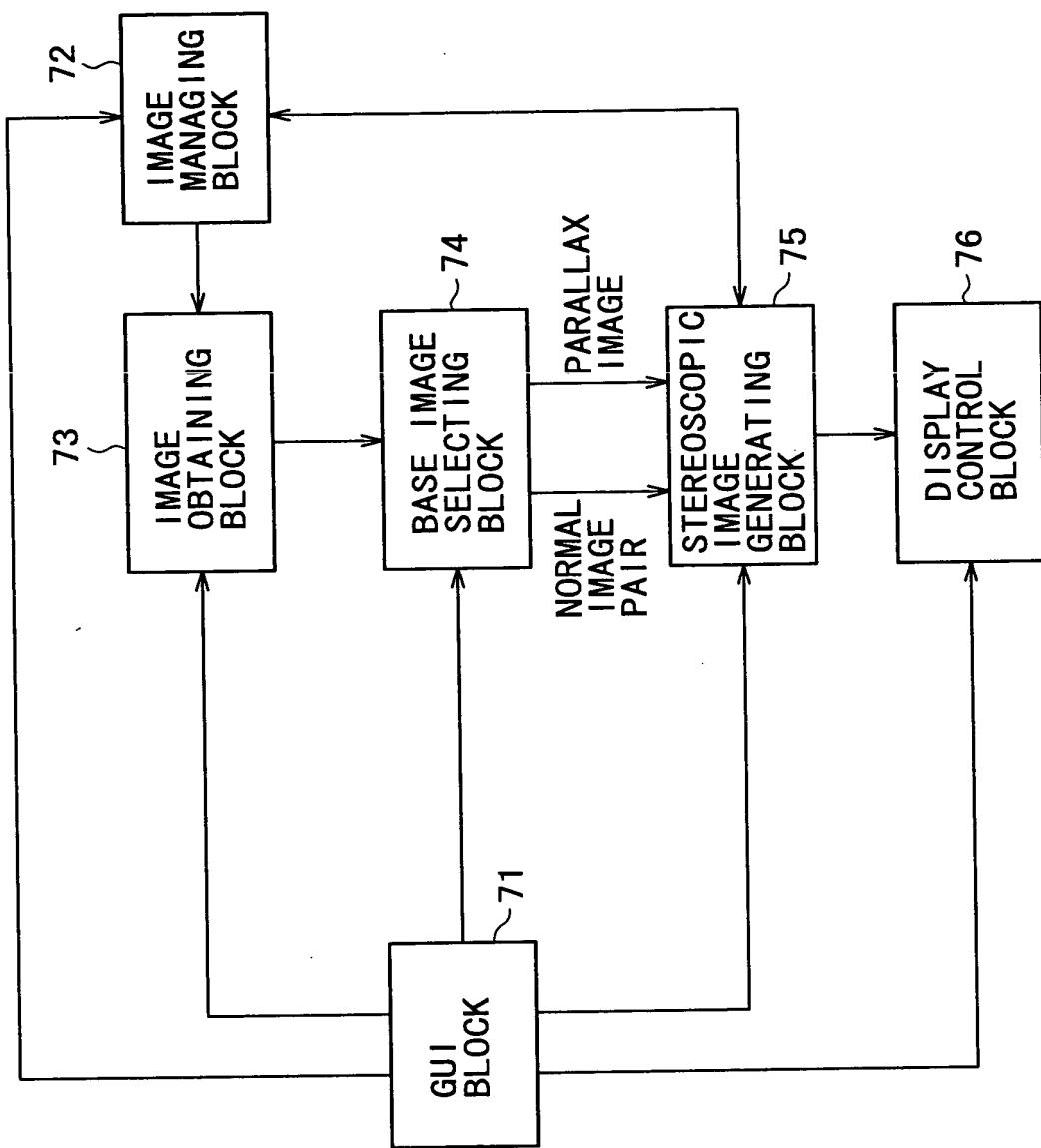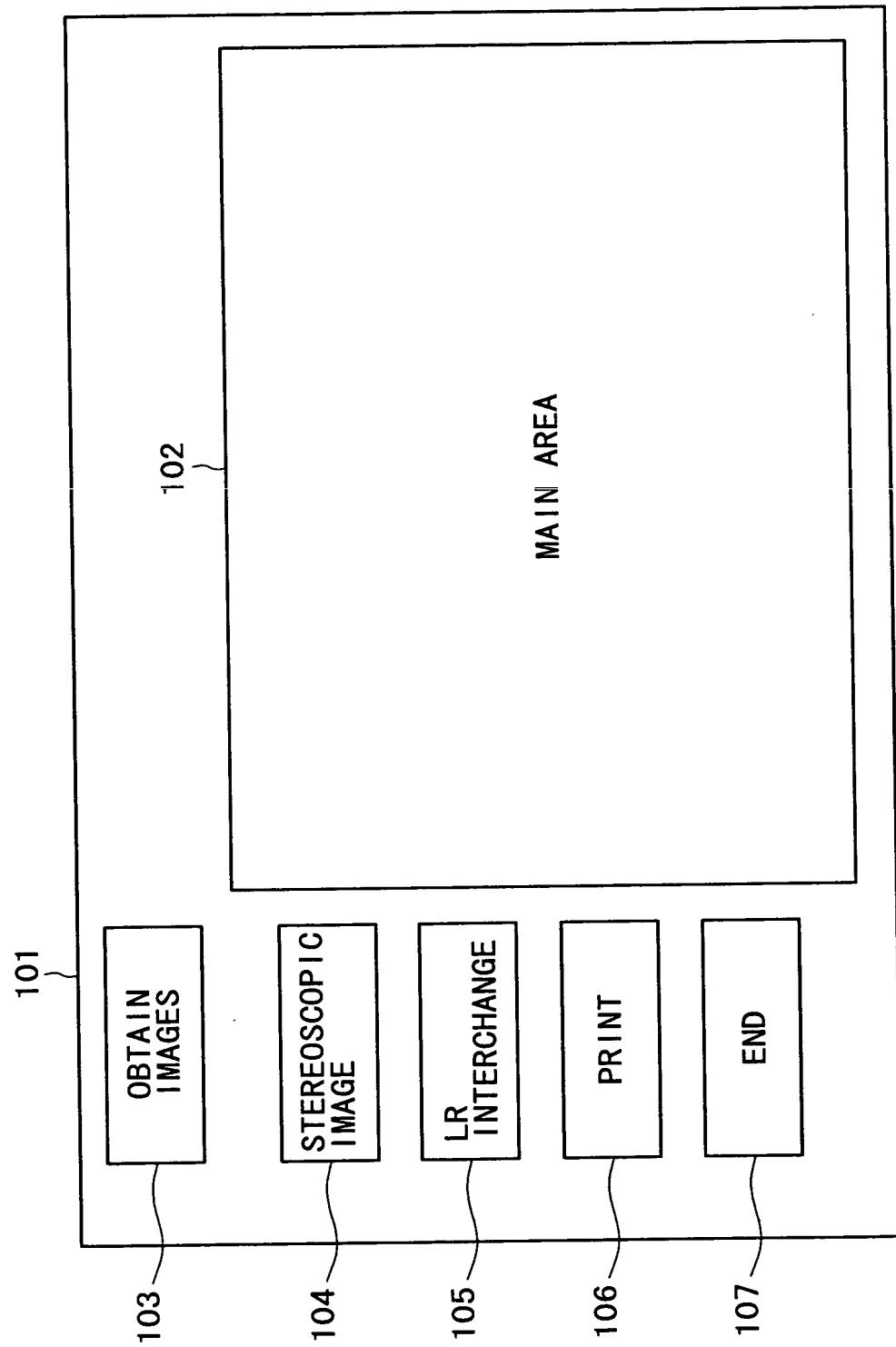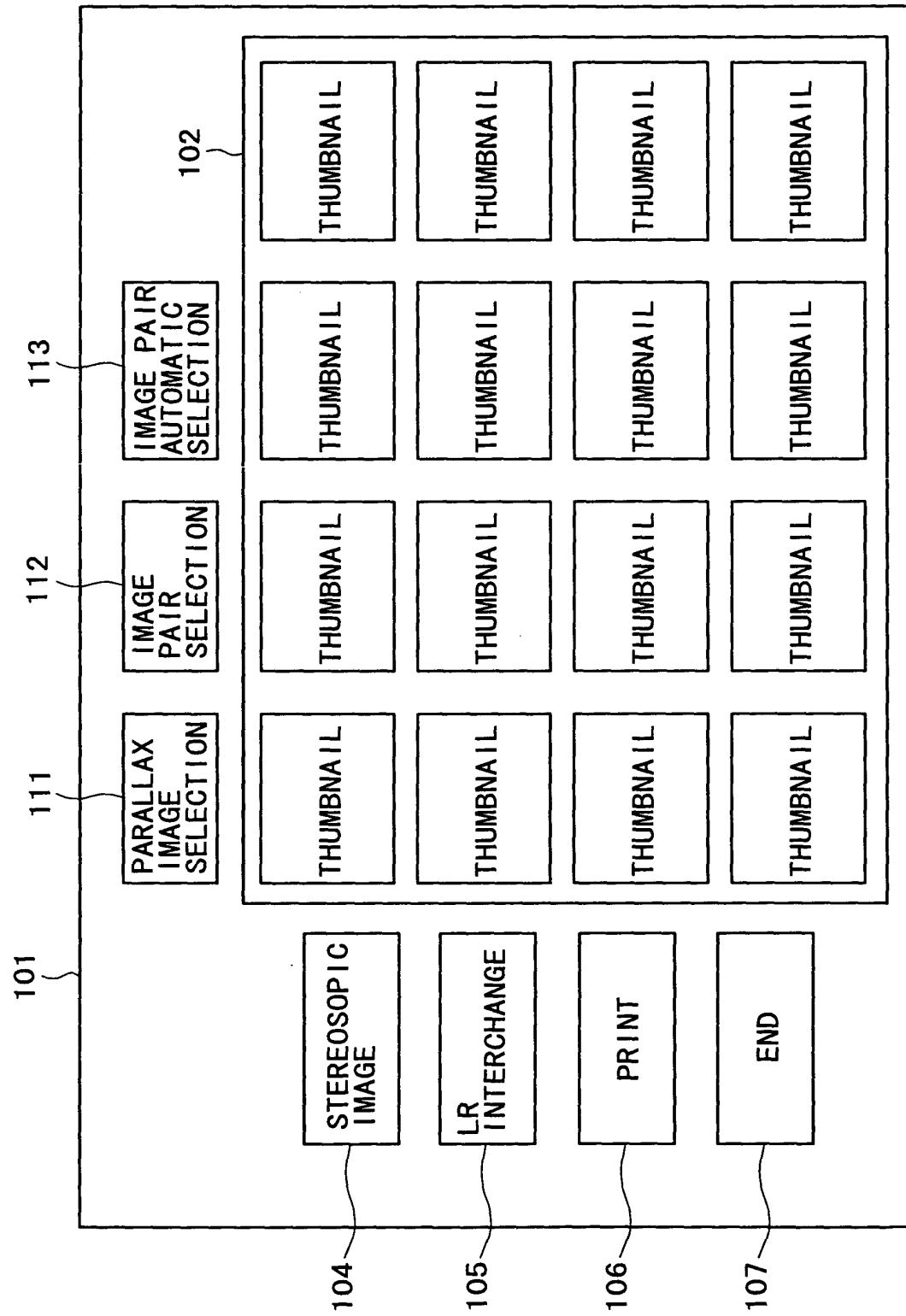IMAGE PAIR SERVING AS BASIS FOR
STEREOSCOPIC IMAGE — S14

END

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```
( START VERTICAL POSITION
  ADJUSTMENT PROCESSING )
              │
              ▼
┌─────────────────────────────────────┐
│ OBTAIN THUMBNAIL IMAGES OF L IMAGE   │──S21
│ AND R IMAGE                          │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│ GENERATE COMPOSITE IMAGE BY ADDING   │──S22
│ BOTH THUMBNAIL IMAGES                │
└─────────────────────────────────────┘
              │
              ▼
     ╱─────────────────────────────╲  S23
NO  ╱   IS MOVEMENT BUTTON PRESSED?  ╲
◄───╲                               ╱
     ╲─────────────────────────────╱
              │ YES
              ▼                    S24
┌─────────────────────────────────────┐
│ MOVE THUMBNAIL IMAGE OF R IMAGE      │
│ VERTICALLY ACCORDING TO OPERATION    │
│ OF USER AND REGENERATE COMPOSITE     │
│ IMAGE                                │
└─────────────────────────────────────┘
              │
              ▼
     ╱─────────────────╲  S25
    ╱  IS ADJUSTMENT    ╲  NO
    ╲  FINISHED?        ╱──────►
     ╲─────────────────╱
              │ YES
              ▼
┌─────────────────────┐
│ STORE ADJUSTMENT     │──S26
│ VALUE                │
└─────────────────────┘
              │
              ▼
        ( RETURN )
```

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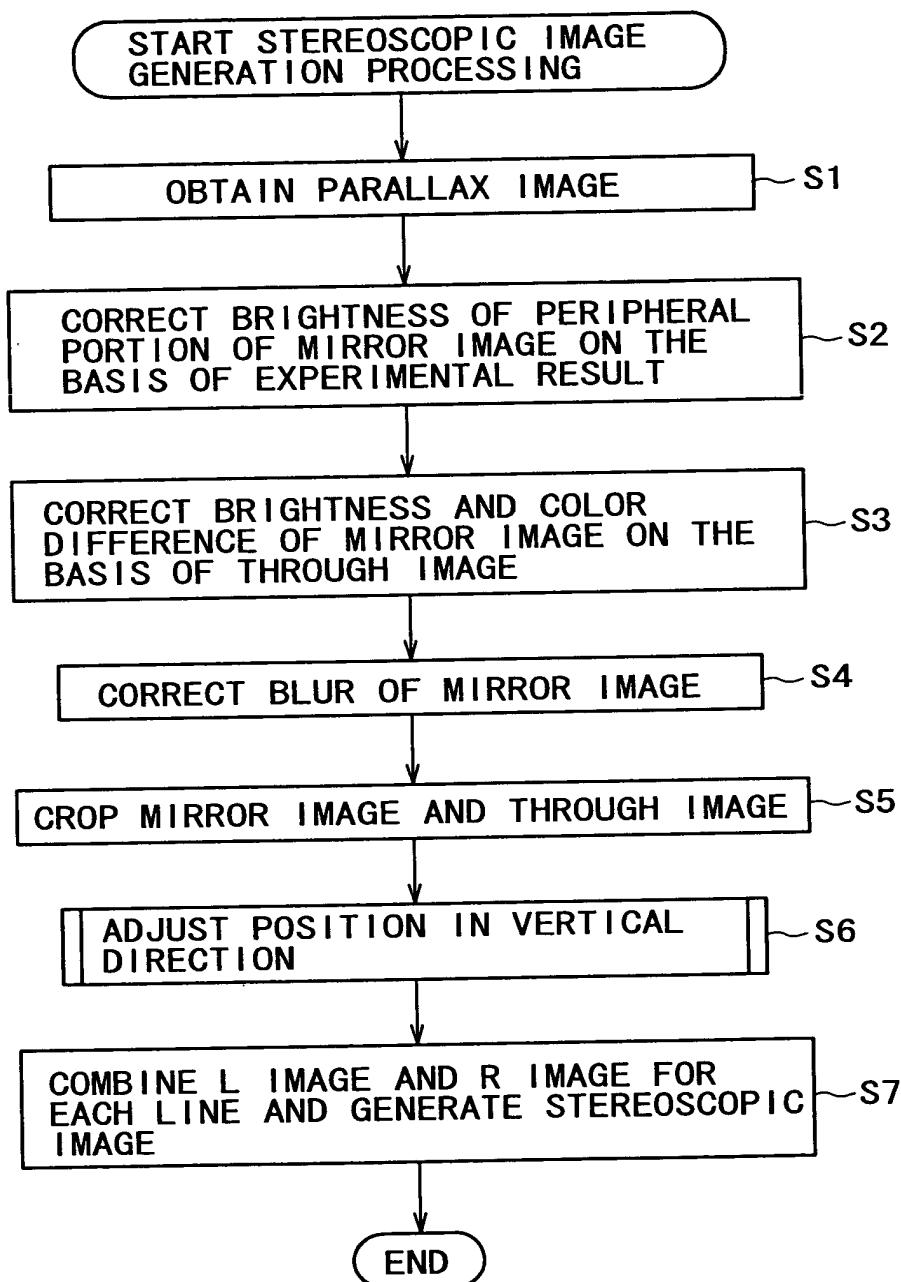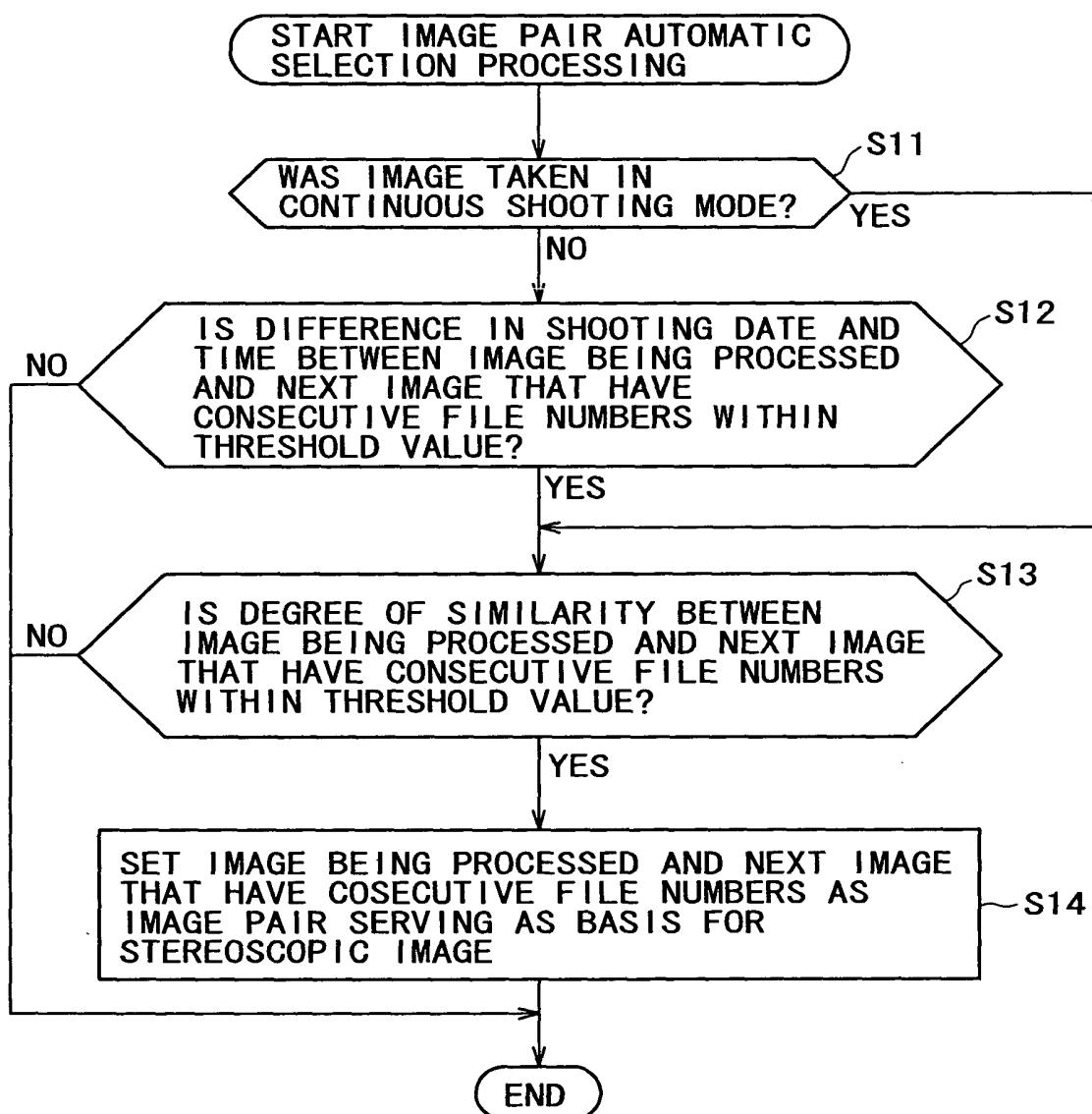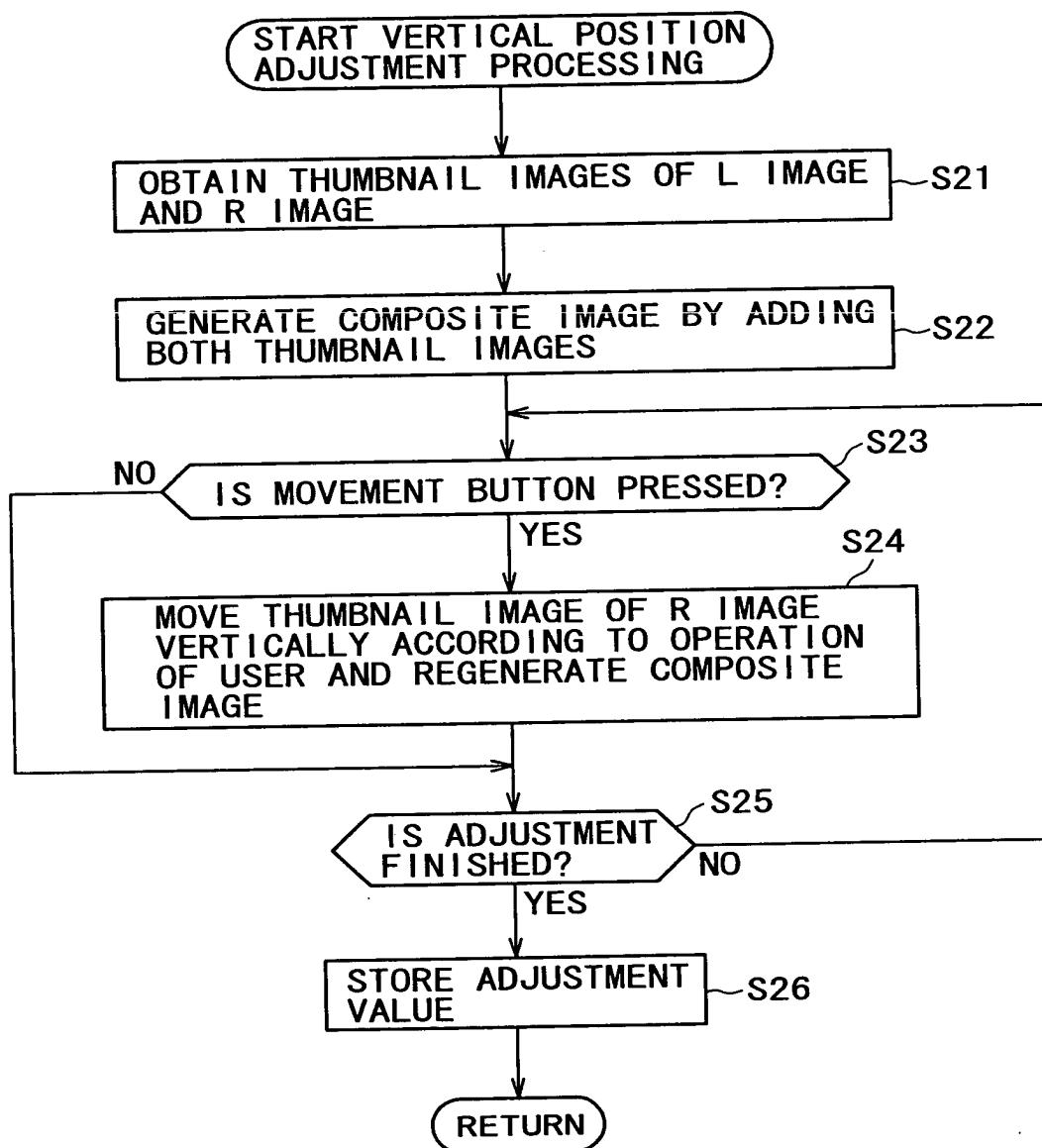PROGRAM, Seiji Sato et al.
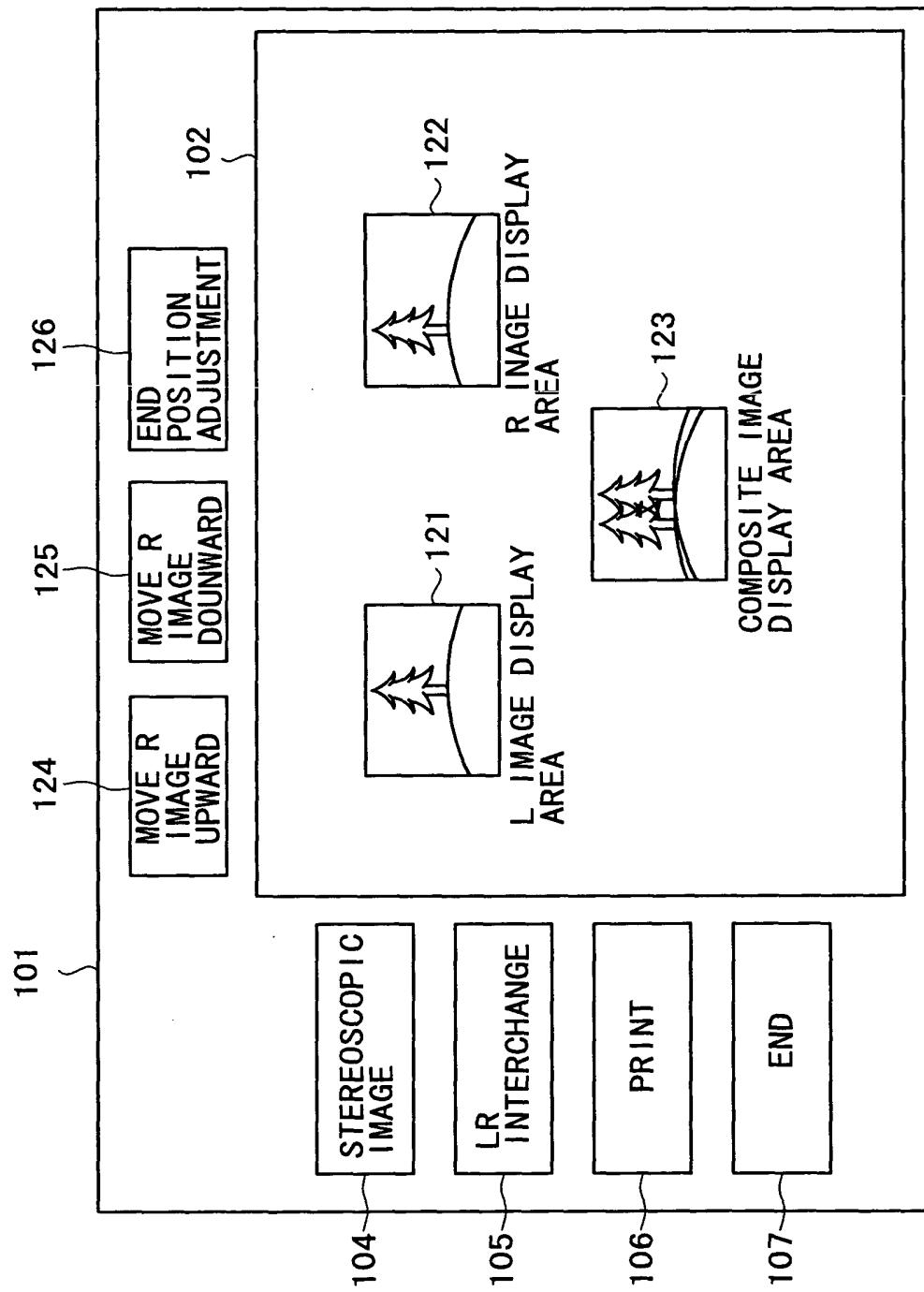Docket No. S1459.70060US00

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START STEREOSCOPIC IMAGE
CONVERSION PROCESSING

S31

IS "LR INTERCHANGE"
BUTTON PRESSED? — YES

S32

INTERCHANGE L IMAGE AND R IMAGE

NO

S33

IS "ANAGLYPH"
BUTTON PRESSED? — YES

S34

GENERATE ANAGLYPH IMAGE

NO

S35

IS "COLOR ANAGLYPH 1"
BUTTON PRESSED? — YES

S36

GENERATE FIRST COLOR ANAGLYPH
IMAGE

NO

S37

IS "COLOR ANAGLYPH 2"
BUTTON PRESSED? — YES

S38

GENERATE SECOND COLOR
ANAGLYPH IMAGE

NO

S39

IS "LENTICULAR"
BUTTON PRESSED? — YES

S40

GENERATE LENTICULAR IMAGE

NO

S41

IS "LIQUID CRYSTAL
SHUTTER GLASSES"
BUTTON PRESSED? — YES

S42

DISPLAY L IMAGE AND
R IMAGE ALTERNATELY
IN SYNCHRONISM WITH
OPERATION OF LIQUID
CRYSTAL SHUTTERS

NO

S43

NO — IS ANY BUTTON
PRESSED?

YES

S45

IS ANY BUTTON
PRESSED? — NO

YES

S46

IS "PRINT"
BUTTON PRESSED? — NO

YES

PRINT — S47

S44

NO — IS "END" BUTTON
PRESSED?

YES

END

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FIG. 20

IMAGE PROCESSING
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FIG. 21

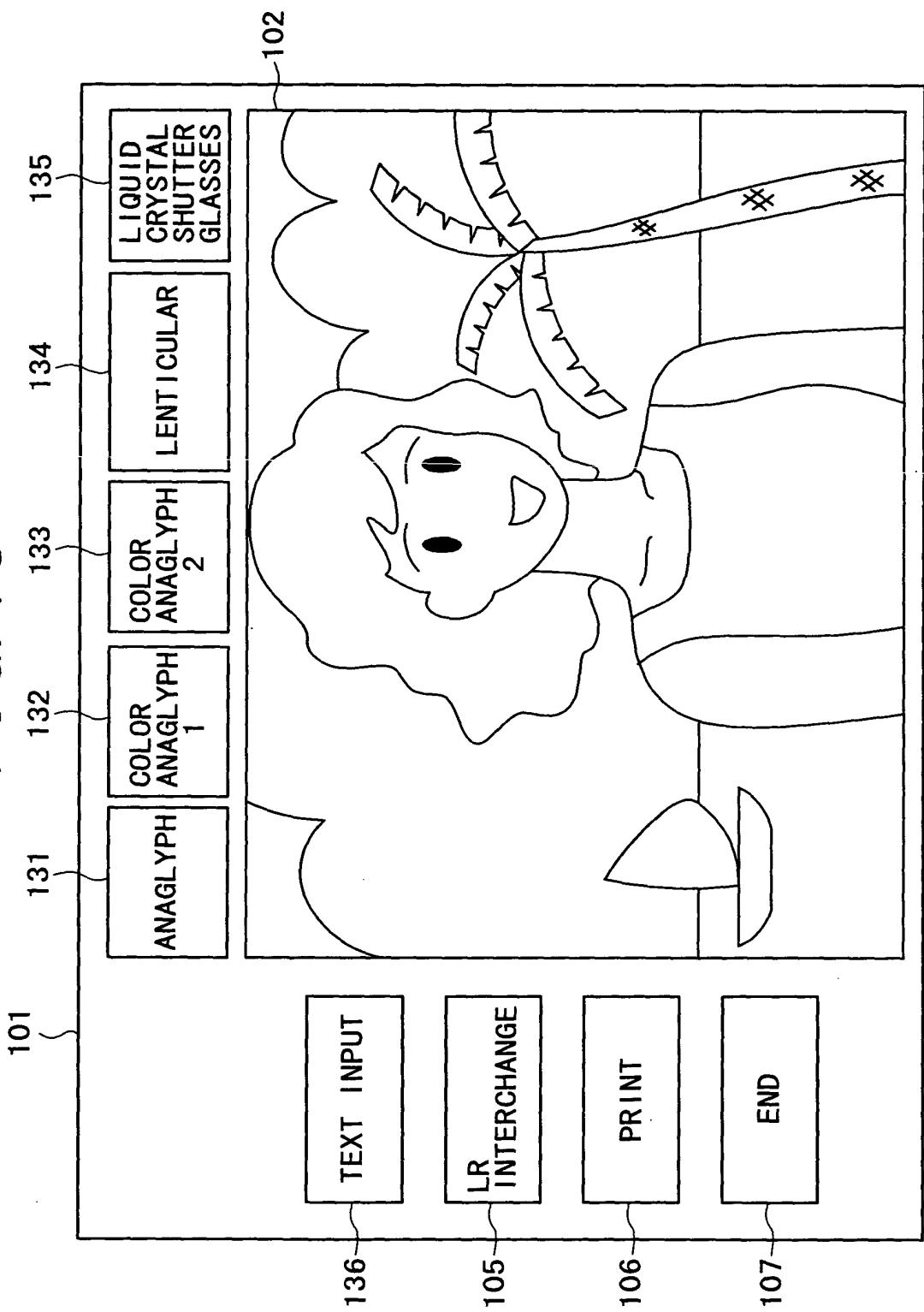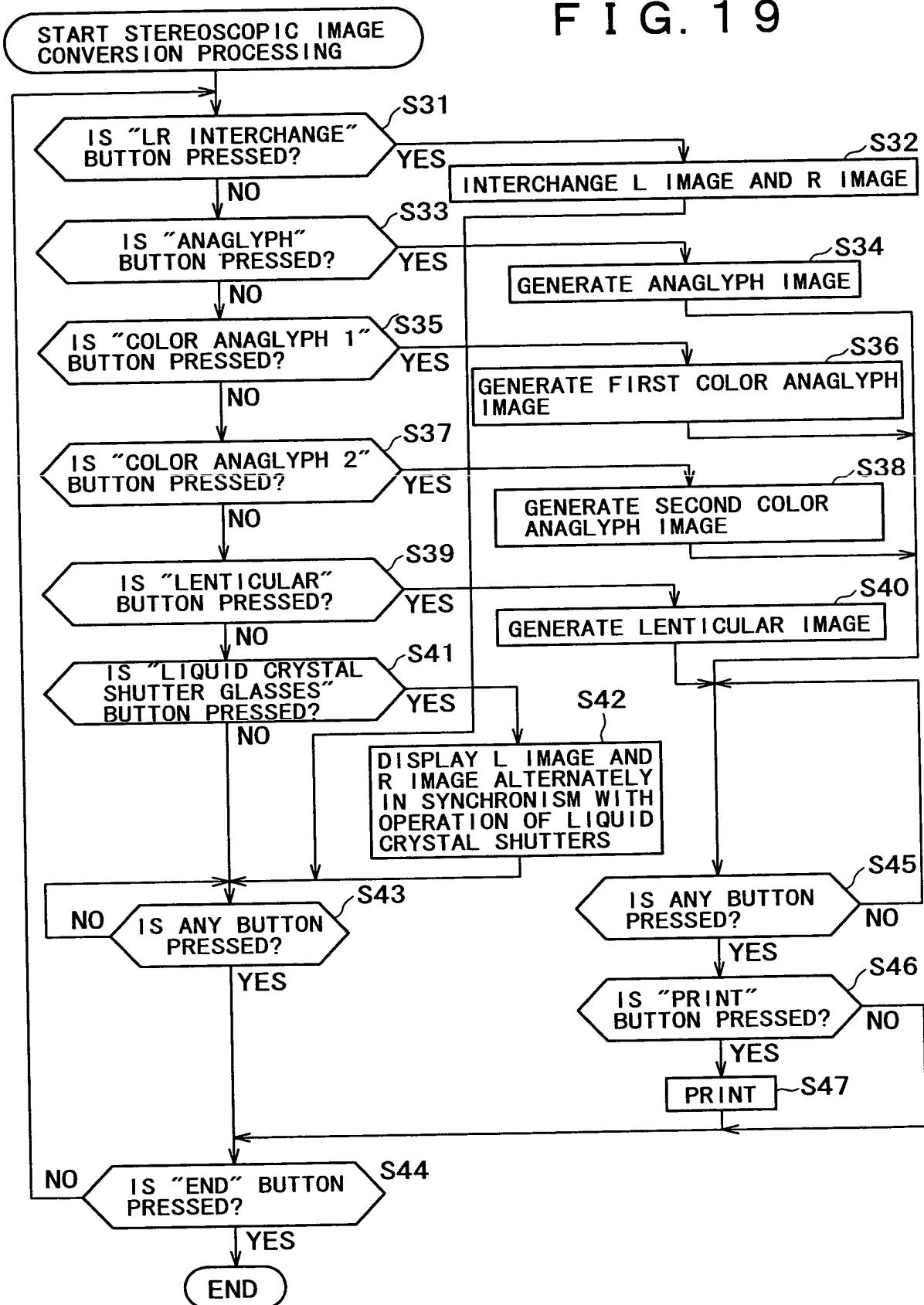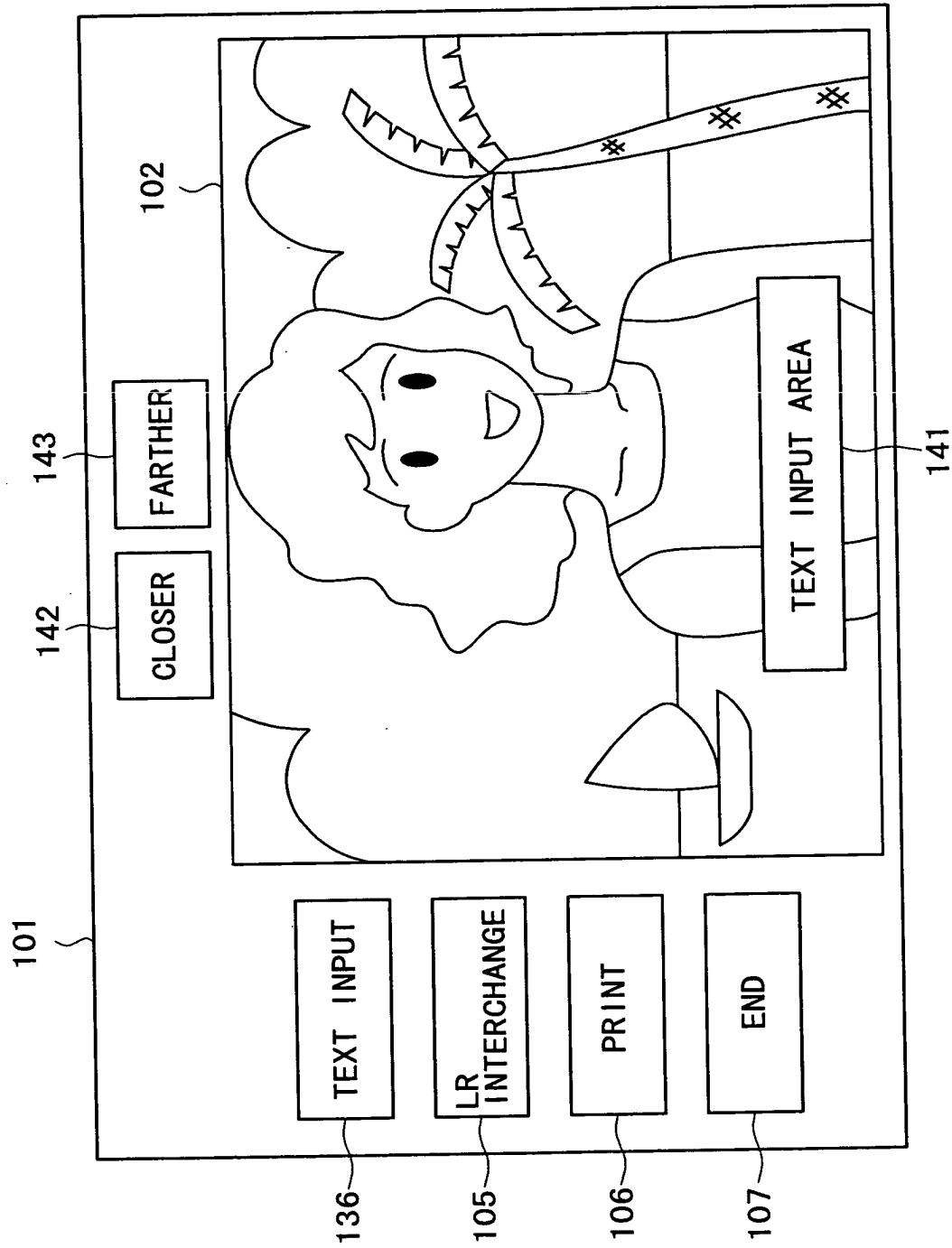START TEXT INPUT PROCESSING

DISPLAY TEXT INPUT AREA — S51

IS "CLOSER" BUTTON PRESSED? — S52
NO

YES

SET INPUT TEXT ETC. CLOSER — S53

IS "FARTHER" BUTTON PRESSED? — S54
NO

YES

SET INPUT TEXT ETC. FARTHER — S55

IS "TEXT INPUT" BUTTON PRESSED? — S56
NO

YES

RECORD TEXT AND OTHER INFORMATION — S57

END